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KIRKPATRICK & LOCKHART LLP 535 SMITHFIELD STREET PITTSBURGH, PA 15222			HAROLD, JEFFEREY F	
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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/032,724	MOTON ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jefferey F Harold	2644	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 27 December 2001.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-45 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-45 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. ***Claims 1-45*** are rejected under 35 U.S.C. 102(b) as being anticipated by Kong (United States Patent 6,072,859).

Regarding **claim 1**, Kong discloses an apparatus for generating voice message of caller's number in case of incoming call. In addition, Kong discloses a telephone system for outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK) signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "an apparatus for audibly annunciating at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal is representative of the information", as disclosed at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "an apparatus"; generating a voice message reads on "audibly annunciating" ; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on "telephone network", frequency shift keyed reads on "modulated signal";

call signal/off-hook detecting unit (30) for capturing a ringing signal and receives the FSK signal containing the caller ID transmitted from the exchange between ring signals, which reads on claimed "a receiver for capturing a ring signal and a modulated signal representative of information transmitted over a telephone network during an interval between the ring signal and a subsequent ring signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the call signal/off-hook detecting unit reads on "a receiver"; FSK reads on "modulated signal"; exchange reads on "telephone network" and between ring signals reads on "between the ring signal and a subsequent ring signal";

a voice synthesizer (60) under control of the CPU (10) for sending out the voice message based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "a converter in communication with the receiver for converting the modulated signal into a stream of audible signal", as disclosed at column 4, lines 3-31 and exhibited in figures 1 and 2; wherein the voice synthesizer reads on "a converter"; the FSK signal reads on "modulated signal"; the CPU reads on "the receiver" and sending out the voice message reads on "stream of audible signals"

a speaker (70) in communication with the voice synthesizer (60) for outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed "a speaker in communication with the converter for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network", as disclosed at column 3, lines 33-37; column 4,

lines 30-33 and exhibited in figures 1 and 2; wherein voice synthesizer reads on “converter”; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on “producing audible sounds corresponding to the stream of audible signals”; caller ID reads on “information” and exchange reads on “telephone network”.

Regarding **claim 2**, Kong discloses everything claimed as applied above (see claim 1), in addition Kong discloses wherein the caller ID is transmitted between ringing signals from the exchange, which reads on claimed “wherein the information is received during an interval between ringing signals transmitted over the telephone network”, as disclosed at column 3, lines 54-56; wherein caller ID reads on “information” and exchange reads on “telephone network”.

Regarding **claim 3**, Kong discloses everything claimed as applied above (see claim 1), in addition Kong discloses memory (50) in communication with the call signal/off-hook detecting unit (30) for storing the tuning bar corresponding to the extracted caller telephone number; which reads on claimed “further comprising a memory circuit in communication with the receiver for storing information”, as disclosed at column 3, lines 31-34 and exhibited in figure 1; wherein tuning bar corresponding to the extracted caller telephone number reads on claimed “information” and call signal/off-hook detecting unit reads on “receiver”.

Regarding **claim 4**, Kong discloses everything claimed as applied above (see claim 1), in addition Kong discloses wherein the modem (20) demodulates the FSK signal received from the exchange and extracts the caller’s telephone number from the

caller ID received and displays the extracted caller's telephone number at the display (80), which reads on claimed "further comprising a demodulator for demodulating the modulated signal received from the telephone network and generating therefrom a stream of characters representative of the information", as disclosed at column 3, line 53 through column 4, line 6 and exhibited in figure 2; wherein the modem demodulates the FSK signal received reads on "demodulator for demodulating the modulated signal received", wherein exchange reads on "telephone network"; extracts the caller's telephone number reads on "information"; and wherein displays the extracted caller's telephone number reads on "generating therefrom a stream of characters".

Regarding **claim 5**, Kong discloses everything claimed as applied above (see claim 1), in addition Kong discloses CPU (10) for extracting the caller ID from the FSK signal and displays the extracted caller's telephone number, which reads on claimed "further comprising a processor for converting the modulated signal into a stream of characters representative of the information", as disclosed at column 4, lines 1-6 and exhibited in figure 2; wherein CPU reads on "processor"; extracting reads on "converting"; FSK reads on "modulated signal"; and displays the extracted caller's telephone number reads on "stream of characters representative of the information".

Regarding **claim 6**, Kong discloses everything claimed as applied above (see claim 5), in addition Kong discloses a memory circuit (50) in communication with the CPU (10), wherein the CPU (10) temporarily stores the tuning bar corresponding to the extracted caller's telephone number in memory (50), which reads on claimed "further comprising a memory circuit in communication with the processor, wherein the

processor stores the character stream in the memory circuit", as disclosed at column 4, lines 7-11 and exhibited in figure 2; wherein CPU reads on "processor"; and temporarily stores tuning bar reads on "stores the character stream".

Regarding **claim 7**, Kong discloses everything claimed as applied above (see claim 1), in addition Kong discloses wherein the FSK signal includes caller ID information identifying an originating telephone subscriber line, the caller ID information contains the caller telephone number according to a directory listing, which reads on claimed "wherein the modulated signal includes information identifying an originating telephone subscriber line, the information being selected from the group consisting originating telephone number according to a directory listing", as disclosed at column 4, lines 1-4 and exhibited in figure 2; wherein FSK signal reads on "modulated signal" and caller ID reads on "information identifying an originating telephone subscriber line".

Regarding **claim 8**, Kong discloses a telephone system, as disclosed in figure 1, comprising:

telephone for outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK) signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "an apparatus for audibly annunciating at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal is representative of the information", as disclosed at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "an

apparatus"; generating a voice message reads on "audibly annunciating" ; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on "telephone network", frequency shift keyed reads on "modulated signal";

call signal/off-hook detecting unit (30) for capturing a ringing signal and receives the FSK signal containing the caller ID transmitted from the exchange between ring signals, which reads on claimed "a receiver for capturing a ring signal and a modulated signal representative of information transmitted over a telephone network during an interval between the ring signal and a subsequent ring signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the call signal/off-hook detecting unit reads on "a receiver"; FSK reads on "modulated signal"; exchange reads on "telephone network" and between ring signals reads on "between the ring signal and a subsequent ring signal";

a voice synthesizer (60) under control of the CPU (10) for sending out the voice message based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "a converter in communication with the receiver for converting the modulated signal into a stream of audible signal", as disclosed at column 4, lines 3-31 and exhibited in figures 1 and 2; wherein the voice synthesizer reads on "a converter"; FSK signal reads on "modulated signal"; the CPU reads on "the receiver" and sending out the voice message reads on "stream of audible signals"

a speaker (70) in communication with the voice synthesizer (60) for outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed "a

speaker in communication with the converter for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network", as disclosed at column 3, lines 33-37; column 4, lines 30-33 and exhibited in figures 1 and 2; wherein voice synthesizer reads on "converter"; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on "producing audible sounds corresponding to the stream of audible signals"; caller ID reads on "information" and exchange reads on "telephone network".

Regarding **claim 9**, Kong discloses everything claimed as applied above (see claim 8), in addition Kong discloses wherein the caller ID is transmitted between ringing signals from the exchange, which reads on claimed "wherein the information is received during an interval between ringing signals transmitted over the telephone network", as disclosed at column 3, lines 54-56; wherein caller ID reads on "information" and exchange reads on "telephone network".

Regarding **claim 10**, Kong discloses everything claimed as applied above (see claim 8), in addition Kong discloses memory (50) in communication with the call signal/off-hook detecting unit (30) for storing a tuning bar corresponding to the extracted caller telephone number; which reads on claimed "further comprising a memory circuit in communication with the receiver for storing information", as disclosed at column 3, lines 31-34 and exhibited in figure 1; wherein tuning bar corresponding to the extracted caller telephone number reads on claimed "information" and call signal/off-hook detecting unit reads on "receiver".

Regarding **claim 11**, Kong discloses everything claimed as applied above (see claim 8), in addition Kong discloses wherein the modem (20) demodulates the FSK signal received from the exchange and extracts the caller's telephone number from the caller ID received and displays the extracted caller's telephone number at the display (80), which reads on claimed "further comprising a demodulator for demodulating the modulated signal received from the telephone network and generating therefrom a stream of characters representative of the information", as disclosed at column 3, line 53 through column 4, line 6 and exhibited in figure 2; wherein the modem demodulates the FSK signal received reads on "demodulator for demodulating the modulated signal received", wherein exchange reads on "telephone network"; extracts the caller's telephone number reads on "information"; and wherein displays the extracted caller's telephone number reads on "generating therefrom a stream of characters".

Regarding **claim 12**, Kong discloses everything claimed as applied above (see claim 8), in addition Kong discloses CPU (10) for extracting the caller ID from the FSK signal and displays the extracted caller's telephone number, which reads on claimed "further comprising a processor for converting the modulated signal into a stream of characters representative of the information", as disclosed at column 4, lines 1-6 and exhibited in figure 2; wherein CPU reads on "processor"; extracting reads on "converting"; FSK reads on "modulated signal"; and displays the extracted caller's telephone number reads on "stream of characters representative of the information".

Regarding **claim 13**, Kong discloses everything claimed as applied above (see claim 12), in addition Kong discloses a memory circuit (50) in communication with the

CPU (10), wherein the CPU (10) temporarily stores the tuning bar corresponding to the extracted caller's telephone number in memory (50), which reads on claimed "further comprising a memory circuit in communication with the processor, wherein the processor stores the character stream in the memory circuit", as disclosed at column 4, lines 7-11 and exhibited in figure 2; wherein CPU reads on "processor"; and temporarily stores tuning bar reads on "stores the character stream".

Regarding **claim 14**, Kong discloses everything claimed as applied above (see claim 8), in addition Kong discloses wherein the FSK signal includes caller ID information identifying an originating telephone subscriber line according to a directory listing, the caller ID information contains the caller telephone number, which reads on claimed "wherein the modulated signal includes information identifying an originating telephone subscriber line, the information being selected from the group consisting originating telephone number according to a directory listing", as disclosed at column 4, lines 1-4 and exhibited in figure 2; wherein FSK signal reads on "modulated signal" and caller ID reads on "information identifying an originating telephone subscriber line".

Regarding **claim 15**, Kong discloses a method for outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK) signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "a method for audibly annunciating at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal is representative of the information", as disclosed

at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "an apparatus"; generating a voice message reads on "audibly annunciating"; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on "telephone network", frequency shift keyed reads on "modulated signal"; the method comprising:

receiving a FSK signal containing the caller ID transmitted from the exchange between ring signals, which reads on claimed "receiving a modulated signal representative of information transmitted over a telephone network during an interval between the ring signal and a subsequent ring signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the call signal/off-hook detecting unit reads on "a receiver"; FSK reads on "modulated signal"; exchange reads on "telephone network" and between ring signals reads on "between the ring signal and a subsequent ring signal";

sending out the voice message via the voice synthesizer (60) based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "converting the modulated signal into a stream of audible signal", as disclosed at column 4, lines 3-31 and exhibited in figures 1 and 2; wherein sending out reads on "converting"; wherein FSK reads on "modulated signal"; sending out the voice message reads on "stream of audible signals"

outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) via a speaker (70) in communication with the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed

"providing the stream of audible signals to a speaker in communication with the converter for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network", as disclosed at column 3, lines 33-37; column 4, lines 30-33 and exhibited in figures 1 and 2; wherein voice synthesizer reads on "converter"; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on "providing the stream of audible signals"; caller ID reads on "information" and exchange reads on "telephone network".

Regarding claim 16, Kong discloses everything claimed as applied above (see claim 15), in addition Kong discloses wherein receiving the FSK signal further comprises receiving the caller ID is transmitted between ringing signals from the exchange, which reads on claimed "wherein receiving the modulated signal further comprises receiving the information during an interval between ringing signals transmitted over the telephone network", as disclosed at column 3, lines 54-56; wherein caller ID reads on "information" and from the exchange reads on "over the telephone network".

Regarding claim 17, Kong discloses everything claimed as applied above (see claim 15), in addition Kong discloses storing in memory (50) a tuning bar corresponding to the extracted caller telephone number in communication with the call signal/off-hook detecting unit (30); which reads on claimed "further comprising storing the information in a memory circuit in communication with the receiver", as disclosed at column 3, lines 31-34 and exhibited in figure 1; wherein tuning bar corresponding to the extracted caller

telephone number reads on claimed "information" and call signal/off-hook detecting unit reads on "receiver".

Regarding **claim 18**, Kong discloses everything claimed as applied above (see claim 15), in addition Kong discloses demodulating the FSK signal received from the exchange and extracts the caller's telephone number from the caller ID received and displays the extracted caller's telephone number at the display (80), which reads on claimed "further comprising demodulating the modulated signal received over the telephone network and generating therefrom a stream of characters representative of the information", as disclosed at column 3, line 53 through column 4, line 6 and exhibited in figure 2; wherein the FSK signal received reads on "the modulated signal received", wherein exchange reads on "telephone network"; extracts the caller's telephone number reads on "information"; and wherein displays the extracted caller's telephone number reads on "generating therefrom a stream of characters representative of the information".

Regarding **claim 19**, Kong discloses everything claimed as applied above (see claim 15), in addition Kong discloses converting the FSK signal and displays the extracted caller's telephone number, which reads on claimed "further comprising converting the modulated signal into a stream of characters representative of the information", as disclosed at column 4, lines 1-6 and exhibited in figure 2; wherein CPU reads on "processor"; extracting reads on "converting"; FSK reads on "modulated signal"; and displays the extracted caller's telephone number reads on "stream of characters representative of the information".

Regarding **claim 20**, Kong discloses everything claimed as applied above (see claim 19), in addition Kong discloses storing in memory circuit (50) in the tuning bar corresponding to the extracted caller's telephone number in communication with the CPU (10); which reads on claimed "further comprising storing the characters in a memory circuit in communication with a processor", as disclosed at column 4, lines 7-11 and exhibited in figure 2; wherein CPU reads on "processor"; and temporarily stores tuning bar reads on "storing the characters".

Regarding **claim 21**, Kong discloses everything claimed as applied above (see claim 15), in addition Kong discloses wherein receiving the FSK signal further comprises extracting caller ID information contained within the FSK signal identifying an originating telephone subscriber line, the caller ID information contains the caller telephone number according to a directory listing, which reads on claimed "wherein receiving the modulated signal further comprises capturing information contained within the modulated signal identifying an originating telephone subscriber line, the information being selected from the group consisting name associated with the originating telephone number according to the directory listing", as disclosed at column 4, lines 1-4 and exhibited in figure 2; wherein FSK signal reads on "modulated signal"; extracting reads on "capturing" and caller ID reads on "information identifying an originating telephone subscriber line".

Regarding **claim 22**, Kong discloses a telephone system, with the telephone outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK)

signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "an apparatus for audibly annunciating at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal is representative of the information", as disclosed at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "an apparatus"; generating a voice message reads on "audibly annunciating"; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on "telephone network", frequency shift keyed reads on "modulated signal"; the telephone system comprising:

call signal/off-hook detecting unit (30) for capturing a ringing signal and receives the FSK signal containing the caller ID transmitted from the exchange between ring signals, which reads on claimed "means for capturing a ring signal and a modulated signal representative of information transmitted over a telephone network during an interval between the ring signal and a subsequent ring signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the call signal/off-hook detecting unit reads on "means for capturing"; FSK reads on "modulated signal"; exchange reads on "telephone network" and between ring signals reads on "between the ring signal and a subsequent ring signal";

a voice synthesizer (60) under control of the CPU (10) for sending out the voice message based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "means for converting the modulated signal into a stream of audible signals in communication with the receiver", as disclosed at column 4, lines 3-

31 and exhibited in figures 1 and 2; wherein the voice synthesizer reads on "means for converting"; FSK signal reads on "modulated signal"; the CPU reads on "the receiver" and sending out the voice message reads on "stream of audible signals";

a speaker (70) in communication with the voice synthesizer (60) for outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed "means for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network in communication with the converter", as disclosed at column 3, lines 33-37; column 4, lines 30-33 and exhibited in figures 1 and 2; wherein the speaker reads on "means for producing audible sounds"; voice synthesizer reads on "converter"; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on "the stream of audible signals"; caller ID reads on "information" and exchange reads on "telephone network".

Regarding **claim 23**, Kong discloses a telephone, as exhibited in figure 1, comprising:

a telephone system outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK) signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "means for audibly annunciating at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal

is representative of the information", as disclosed at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "means for audibly announcing"; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on "telephone network", frequency shift keyed reads on "modulated signal"; wherein the telephone system comprises:

call signal/off-hook detecting unit (30) for capturing a ringing signal and receives the FSK signal containing the caller ID transmitted from the exchange between ring signals, which reads on claimed "means for receiving a modulated signal representative of information transmitted over a telephone network during an interval between the ring signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the call signal/off-hook detecting unit reads on "means for receiving"; FSK reads on "modulated signal"; exchange reads on "telephone network" and between ring signals reads on "between the ring signals";

a voice synthesizer (60) under control of the CPU (10) for sending out the voice message based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "means for converting the modulated signal into a stream of audible signals in communication with the means for receiving", as disclosed at column 4, lines 3-31 and exhibited in figures 1 and 2; wherein the voice synthesizer reads on "means for converting"; FSK signal reads on "modulated signal"; the CPU reads on "means for receiving" and sending out the voice message reads on "stream of audible signals";

a speaker (70) in communication with the voice synthesizer (60) for outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed "means for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network in communication with the means for converting", as disclosed at column 3, lines 33-37; column 4, lines 30-33 and exhibited in figures 1 and 2; wherein the speaker reads on "means for producing audible sounds"; voice synthesizer reads on "means for converting"; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on "the stream of audible signals"; caller ID reads on "information" and exchange reads on "telephone network".

Regarding **claim 24**, Kong discloses a telephone system for outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK) signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "system for audibly announcing at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal is representative of the information", as disclosed at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "means for audibly announcing"; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on

"telephone network", frequency shift keyed reads on "modulated signal"; wherein the telephone system comprises:

call signal/off-hook detecting unit (30) for capturing a ringing signal and receives the FSK signal containing the caller ID transmitted from the exchange between ring signals, which reads on claimed "means for receiving a modulated signal representative of information transmitted over a telephone network during an interval between the ring signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the call signal/off-hook detecting unit reads on "means for receiving"; FSK reads on "modulated signal"; exchange reads on "telephone network" and between ring signals reads on "between the ring signals";

a voice synthesizer (60) under control of the CPU (10) for sending out the voice message based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "means for converting the modulated signal into a stream of audible signals", as disclosed at column 4, lines 3-31 and exhibited in figures 1 and 2; wherein the voice synthesizer reads on "means for converting"; FSK signal reads on "modulated signal"; and sending out the voice message reads on "stream of audible signals";

the CPU (10) controls the voice synthesizer (60) so as to send out the voice message through the speaker (70) in communication with the voice synthesizer (60) for outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed "means for providing the stream of audible signals to a speaker in

communication with the converter for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network", as disclosed at column 3, lines 33-37; column 4, lines 30-33 and exhibited in figures 1 and 2; wherein the voice message reads on "stream of audible signals"; the CPU reads on "means for providing"; voice synthesizer reads on "converter"; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on "producing audible sounds corresponding to the stream of audible signals"; caller ID reads on "information" and exchange reads on "telephone network".

Regarding claim 25, Kong discloses an apparatus for generating voice message of caller's number in case of incoming call. In addition, Kong discloses a telephone system for outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK) signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "an apparatus for audibly annunciating at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal is representative of the information", as disclosed at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "an apparatus"; generating a voice message reads on "audibly annunciating" ; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on "telephone network", frequency shift keyed reads on "modulated signal";

call signal/off-hook detecting unit (30) for capturing a ringing signal and receives the FSK signal containing the caller ID transmitted from the exchange between ring signals, the call signal/off-hook detecting unit (30) providing the modulated signal to the CPU (10) for providing a voice message to a telephone after receiving the FSK signal which reads on claimed "a receiver for capturing a ring signal and a modulated signal representative of information transmitted over a telephone network during an interval between the ring signal and a subsequent ring signal, the receiver providing the subsequent ring signal to a telephone ringer after receiving the modulated signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the call signal/off-hook detecting unit reads on "a receiver"; FSK reads on "modulated signal"; exchange reads on "telephone network"; the call signal/off-hook detecting unit providing the modulated signal to the CPU (10) for providing the voice message to a telephone after receiving the FSK signal reads on "the receiver providing the subsequent ring signal to a telephone ringer after receiving modulated signal" and between ring signals reads on "between the ring signal and a subsequent ring signal"; a voice synthesizer (60) under control of the CPU (10) for sending out the voice message based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "a converter in communication with the receiver for converting the modulated signal into a stream of audible signal", as disclosed at column 4, lines 3-31 and exhibited in figures 1 and 2; wherein the voice synthesizer reads on "a converter"; the FSK signal reads on "modulated signal"; the CPU reads on "the receiver" and sending out the voice message reads on "stream of audible signals"

a speaker (70) in communication with the voice synthesizer (60) for outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed "a speaker in communication with the converter for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network", as disclosed at column 3, lines 33-37; column 4, lines 30-33 and exhibited in figures 1 and 2; wherein voice synthesizer reads on "converter"; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on "producing audible sounds corresponding to the stream of audible signals"; caller ID reads on "information" and exchange reads on "telephone network".

Regarding **claim 26**, Kong discloses everything claimed as applied above (see claim 25), in addition Kong discloses wherein the caller ID is transmitted between ringing signals from the exchange, which reads on claimed "wherein the information is received during an interval between ringing signals transmitted over the telephone network", as disclosed at column 3, lines 54-56; wherein caller ID reads on "information" and exchange reads on "telephone network".

Regarding **claim 27**, Kong discloses everything claimed as applied above (see claim 25), in addition Kong discloses memory (50) in communication with the call signal/off-hook detecting unit (30) for storing a tuning bar corresponding to the extracted caller telephone number; which reads on claimed "further comprising a memory circuit in communication with the receiver for storing information", as disclosed at column 3,

lines 31-34 and exhibited in figure 1; wherein tuning bar corresponding to the extracted caller telephone number reads on claimed "information" and call signal/off-hook detecting unit (30) reads on "receiver".

Regarding **claim 28**, Kong discloses everything claimed as applied above (see claim 25), in addition Kong discloses wherein the modem (20) demodulates the FSK signal received from the exchange and extracts the caller's telephone number from the caller ID received and displays the extracted caller's telephone number at the display (80), which reads on claimed "further comprising a demodulator for demodulating the modulated signal received from the telephone network and generating therefrom a stream of characters representative of the information", as disclosed at column 3, line 53 through column 4, line 6 and exhibited in figure 2; wherein the modem demodulates the FSK signal received reads on "demodulator for demodulating the modulated signal received", wherein exchange reads on "telephone network"; extracts the caller's telephone number reads on "information"; and wherein displays the extracted caller's telephone number reads on "generating therefrom a stream of characters".

Regarding **claim 29**, Kong discloses everything claimed as applied above (see claim 25), in addition Kong discloses CPU (10) for extracting the caller ID from the FSK signal and displays the extracted caller's telephone number, which reads on claimed "further comprising a processor for converting the modulated signal into a stream of characters representative of the information", as disclosed at column 4, lines 1-6 and exhibited in figure 2; wherein CPU reads on "processor"; extracting reads on

"converting"; FSK reads on "modulated signal"; and displays the extracted caller's telephone number reads on "stream of characters representative of the information".

Regarding **claim 30**, Kong discloses everything claimed as applied above (see claim 29), in addition Kong discloses a memory circuit (50) in communication with the CPU (10), wherein the CPU (10) temporarily stores the tuning bar corresponding to the extracted caller's telephone number in memory (50), which reads on claimed "further comprising a memory circuit in communication with the processor, wherein the processor stores the character stream in the memory circuit", as disclosed at column 4, lines 7-11 and exhibited in figure 2; wherein CPU reads on "processor"; and temporarily stores tuning bar reads on "stores the character stream".

Regarding **claim 31**, Kong discloses everything claimed as applied above (see claim 25), in addition Kong discloses wherein the FSK signal includes caller ID information identifying an originating telephone subscriber line, the caller ID information contains the caller telephone number according to the directory listing, which reads on claimed "wherein the modulated signal includes information identifying an originating telephone subscriber line, the information being selected from the group consisting of originating telephone number according to a directory listing", as disclosed at column 4, lines 1-4 and exhibited in figure 2; wherein FSK signal reads on "modulated signal" and caller ID reads on "information identifying an originating telephone subscriber line".

Regarding **claim 32**, Kong discloses a telephone system, as disclosed in figure 1, comprising:

telephone for outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK) signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "an apparatus for audibly annunciating at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal is representative of the information", as disclosed at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "an apparatus"; generating a voice message reads on "audibly annunciating" ; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on "telephone network", frequency shift keyed reads on "modulated signal"; call signal/off-hook detecting unit (30) for receiving the FSK signal representative of the caller ID transmitted from the exchange between ring signals, the call signal/off-hook detecting unit (30) providing the modulated signal to the CPU (10) for providing a voice message to a telephone after receiving the FSK signal, which reads on claimed "a receiver for receiving a modulated signal representative of information transmitted over a telephone network during an interval between the ringing signals, the receiver providing the subsequent ring signal to a telephone ringer after receiving the modulated signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the call signal/off-hook detecting unit reads on "a receiver"; FSK reads on "modulated signal"; exchange reads on "telephone network"; the call signal/off-hook detecting unit providing the modulated signal to the CPU (10) for providing the voice

message to a telephone after receiving the FSK signal reads on "the receiver providing the subsequent ring signal to a telephone ringer after receiving modulated signal" and between ring signals reads on "between the ring signal and a subsequent ring signal";

a voice synthesizer (60) under control of the CPU (10) for sending out the voice message based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "a converter in communication with the receiver for converting the modulated signal into a stream of audible signals", as disclosed at column 4, lines 3-31 and exhibited in figures 1 and 2; wherein the voice synthesizer reads on "a converter"; FSK signal reads on "modulated signal"; the CPU reads on "the receiver" and sending out the voice message reads on "stream of audible signals"

a speaker (70) in communication with the voice synthesizer (60) for outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed "a speaker in communication with the converter for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network", as disclosed at column 3, lines 33-37; column 4, lines 30-33 and exhibited in figures 1 and 2; wherein voice synthesizer reads on "converter"; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on "producing audible sounds corresponding to the stream of audible signals"; caller ID reads on "information" and exchange reads on "telephone network".

Regarding **claim 33**, Kong discloses everything claimed as applied above (see claim 32), in addition Kong discloses wherein the caller ID is transmitted between ringing signals from the exchange, which reads on claimed "wherein the information is received during an interval between ringing signals transmitted over the telephone network", as disclosed at column 3, lines 54-56; wherein caller ID reads on "information" and exchange reads on "telephone network".

Regarding **claim 34**, Kong discloses everything claimed as applied above (see claim 32), in addition Kong discloses memory (50) in communication with the call signal/off-hook detecting unit (30) for storing a tuning bar corresponding to the extracted caller telephone number; which reads on claimed "further comprising a memory circuit in communication with the receiver for storing information", as disclosed at column 3, lines 31-34 and exhibited in figure 1; wherein tuning bar corresponding to the extracted caller telephone number reads on claimed "information" and call signal/off-hook detecting unit (30) reads on "receiver".

Regarding **claim 35**, Kong discloses everything claimed as applied above (see claim 32), in addition Kong discloses wherein the modem (20) demodulates the FSK signal received from the exchange and extracts the caller's telephone number from the caller ID received and displays the extracted caller's telephone number at the display (80), which reads on claimed "wherein the apparatus further comprises a demodulator for demodulating the modulated signal received from the telephone network and generating therefrom a stream of characters representative of the information", as disclosed at column 3, line 53 through column 4, line 6 and exhibited in figure 2;

wherein the modem demodulates the FSK signal received reads on “demodulator for demodulating the modulated signal received”, wherein exchange reads on “telephone network”; extracts the caller’s telephone number reads on “information”; and wherein displays the extracted caller’s telephone number reads on “generating therefrom a stream of characters”.

Regarding **claim 36**, Kong discloses everything claimed as applied above (see claim 32), in addition Kong discloses CPU (10) for extracting the caller ID from the FSK signal and displays the extracted caller’s telephone number, which reads on claimed “wherein the apparatus further comprises a processor for converting the modulated signal into a stream of characters representative of the information”, as disclosed at column 4, lines 1-6 and exhibited in figure 2; wherein CPU reads on “processor”; extracting reads on “converting”; FSK reads on “modulated signal”; and displays the extracted caller’s telephone number reads on “stream of characters representative of the information”.

Regarding **claim 37**, Kong discloses everything claimed as applied above (see claim 36), in addition Kong discloses a memory circuit (50) in communication with the CPU (10), wherein the CPU (10) temporarily stores the tuning bar corresponding to the extracted caller’s telephone number in memory (50), which reads on claimed “wherein the apparatus further comprises a memory circuit in communication with the processor, wherein the processor stores the character stream in the memory circuit”, as disclosed at column 4, lines 7-11 and exhibited in figure 2; wherein CPU reads on “processor”; and temporarily stores tuning bar reads on “stores the character stream”.

Regarding **claim 38**, Kong discloses everything claimed as applied above (see claim 32), in addition Kong discloses wherein the FSK signal includes caller ID information identifying an originating telephone subscriber line, the caller ID information contains the caller telephone number according to a directory listing, which reads on claimed "wherein the modulated signal includes information identifying an originating telephone subscriber line, the information being selected from the group consisting originating telephone number according to a directory listing", as disclosed at column 4, lines 1-4 and exhibited in figure 2; wherein FSK signal reads on "modulated signal" and caller ID reads on "information identifying an originating telephone subscriber line".

Regarding **claim 39**, Kong discloses a method for outputting a sound at the telephone caller ID information transmitted from the exchange, the caller ID information being transmitted in the form of a frequency shift keyed (FSK) signal to the telephone wherein the FSK signal contains the caller ID information, which reads on claimed "a method for audibly annunciating at a device information transmitted over a telephone network, the information being transmitted in the form of a modulated signal to the device wherein the modulated signal is representative of the information", as disclosed at column 3, line 21 through column 4, line 4 and exhibited in figures 1 and 2; wherein the telephone system reads on "an apparatus"; generating a voice message reads on "audibly annunciating" ; telephone reads on "device"; caller ID reads on "information"; from the exchange reads on "telephone network", frequency shift keyed reads on "modulated signal"; the method comprising:

receiving a call signal by the call signal/off-hook detecting unit (30) from the exchange, which reads on claimed "capturing at a receiver a ring signal from a telephone network", as disclosed at column 3, lines 11-35 and exhibited in figures 1 and 2; wherein the call signal/off-hook detecting unit reads on the "receiver", the call signal reads on "ring signal" and exchange reads on "telephone network";

receiving a FSK signal containing the caller ID transmitted from the exchange between ring signals, which reads on claimed "receiving a modulated signal representative of information transmitted over a telephone network during an interval between the ring signal and a subsequent ring signal", as disclosed at column 4, lines 1-5; column 4, lines 47-56 and exhibited in figure 2; wherein the CPU reads on "a receiver"; FSK reads on "modulated signal"; exchange reads on "telephone network" and between ring signals reads on "between the ring signal and a subsequent ring signal";

sending out the voice message via the voice synthesizer (60) based on the caller ID information extracted from the FSK signal by the CPU (10); which reads on claimed "converting the modulated signal into a stream of audible signal", as disclosed at column 4, lines 3-31 and exhibited in figures 1 and 2; wherein sending out reads on "converting"; wherein FSK reads on "modulated signal"; sending out the voice message reads on "stream of audible signals"

outputting a sound after converting an electric voice signal reproduced by the voice synthesizer (60) via a speaker (70) in communication with the voice synthesizer (60) representative of the caller ID received over the exchange, which reads on claimed

"providing the stream of audible signals to a speaker in communication with the converter for producing audible sounds corresponding to the stream of audible signals representative of the information received over the telephone network", as disclosed at column 3, lines 33-37; column 4, lines 30-33 and exhibited in figures 1 and 2; wherein voice synthesizer reads on "converter"; outputting a sound after converting an electric voice signal reproduced by the voice synthesizer reads on "providing the stream of audible signals"; caller ID reads on "information" and exchange reads on "telephone network";

providing the voice message to a telephone after receiving the FSK signal, which reads on claimed "providing the subsequent ring signal to a telephone ringer after receiving the modulated signal, as disclosed at column 3, lines 11-47; wherein providing the voice message reads on "providing the subsequent ring signal to a telephone ringer" and FSK reads on "modulated signal".

Regarding **claim 40**, Kong discloses everything claimed as applied above (see claim 39), in addition Kong discloses wherein receiving the FSK signal further comprises receiving the caller ID information transmitted between ringing signals from the exchange, which reads on claimed "wherein receiving the modulated signal further comprises receiving the information during an interval between ringing signals transmitted over the telephone network", as disclosed at column 3, lines 54-56; wherein caller ID reads on "information" and from the exchange reads on "over the telephone network".

Regarding **claim 41**, Kong discloses everything claimed as applied above (see claim 39), in addition Kong discloses storing in memory (50) a tuning bar corresponding to the extracted caller telephone number in communication with the call signal/off-hook detecting unit (30); which reads on claimed “further comprising storing the information in a memory circuit in communication with the receiver”, as disclosed at column 3, lines 31-34 and exhibited in figure 1; wherein tuning bar corresponding to the extracted caller telephone number reads on claimed “information” and call signal/off-hook detecting unit (30) reads on “receiver”.

Regarding **claim 42**, Kong discloses everything claimed as applied above (see claim 39), in addition Kong discloses a modem (20) for demodulating the FSK signal received from the exchange and extracts the caller's telephone number from the caller ID received and displays the extracted caller's telephone number at the display (80), which reads on claimed “further comprising demodulating the modulated signal received over the telephone network and generating therefrom a stream of characters representative of the information”, as disclosed at column 3, line 53 through column 4, line 6 and exhibited in figure 2; wherein the modem reads on “demodulating”, wherein the FSK signal received reads on “the modulated signal received”, wherein exchange reads on “telephone network”; extracts the caller's telephone number reads on “information”; and wherein displays the extracted caller's telephone number reads on “generating therefrom a stream of characters representative of the information”.

Regarding **claim 43**, Kong discloses everything claimed as applied above (see claim 39), in addition Kong discloses converting the FSK signal and displays the

extracted caller's telephone number, which reads on claimed "further comprising converting the modulated signal into a stream of characters representative of the information", as disclosed at column 4, lines 1-6 and exhibited in figure 2; wherein CPU reads on "processor"; extracting reads on "converting"; FSK reads on "modulated signal"; and displays the extracted caller's telephone number reads on "stream of characters representative of the information".

Regarding **claim 44**, Kong discloses everything claimed as applied above (see claim 43), in addition Kong discloses storing in memory circuit (50) in the tuning bar corresponding to the extracted caller's telephone number in communication with the CPU (10); which reads on claimed "further comprising storing the characters in a memory circuit in communication with a processor", as disclosed at column 4, lines 7-11 and exhibited in figure 2; wherein CPU reads on "processor"; and temporarily stores tuning bar reads on "storing the characters".

Regarding **claim 45**, Kong discloses everything claimed as applied above (see claim 39), in addition Kong discloses wherein receiving the FSK signal further comprises extracting caller ID information contained within the FSK signal identifying an originating telephone subscriber line, the caller ID information contains the caller telephone number according to the directory listing, which reads on claimed "wherein receiving the modulated signal further comprises capturing information contained within the modulated signal identifying an originating telephone subscriber line, the information being selected from the group consisting name associated with the originating telephone number according to the directory listing", as disclosed at column 4, lines 1-4

and exhibited in figure 2; wherein FSK signal reads on "modulated signal"; extracting reads on "capturing" and caller ID reads on "information identifying an originating telephone subscriber line".

***Conclusion***

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferey F Harold whose telephone number is 703-306-5836. The examiner can normally be reached on Monday - Friday 9 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W Isen can be reached on 703-305-4386. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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JFH  
April 26, 2004

Jefferey F Harold  
Examiner  
Art Unit 2644